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REVOCATION OF PRIOR POWERS OF ATTORNEY APPOINTMENT OF NEW POWERS OF ATTORNEY AND

CHANGE OF CORRESPONDENCE ADDRESS

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Applicant/Patent Owner: SIEMENS VDO AUTOMOTIVE CORPORATION

Application No.: 09/683,018

Filing Date: 11/8/2001

Publication No.: 2002-0089244

Publication Date: 7/11/2002

Patent No.: 6744158

Issue Date: 6/1/2004

Entitled: Electric machine With Cooling Rings

Siemens VDO Automotive Corporation, a Delaware corporation, as assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment averred per the attached Statement Under 37 CFR 3.73(b), hereby:

a) revokes all previous powers of attorney given in the above-identified application.

b) appoints all Practitioners associated with the Customer Number: 028524 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

c) requests change the correspondence address for the above-identified application to the address associated with the above-mentioned Customer Number.

19 July 2007

Laura M. Slenzak

Assistant Secretary for Intellectual Property Matters Siemens VDO Automotive Corporation

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SIEMENS VDO AUTOMOTIVE CORPORATION

Application No.: 09/683,018 Filing Date: 11/8/2001

Publication No.: 2002-0089244 Publication Date: 7/11/2002

Patent No.: 6744158 Issue Date: 6/1/2004

Entitled: Electric machine With Cooling Rings

Siemens VDO Automotive Corporation, a Delaware corporation, states that it is: the assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 019077, Frame 0840, for which a copy thereof is attached.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was already submitted for recordation pursuant to 37 CFR 3.11.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

19 July 2007

Laura M. Stenzak

Assistant Secretary for Intellectual Property Matters

Siemens VDO Automotive Corporation





Patent Assignment Details NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff. Reel/Frame: 019077/0840

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1	Patent #: Title: SWIT	5402059 CHING POWER SU	Issue Dt: JPPLY OPERATIN		Application #:	8193587	Filing Dt:	2/8/199
2	Patent #: Title: FAUL	<u>5469351</u> T ISOLATION IN A	Issue Dt: AN INDUCTION M		Application #: L SYSTEM	8270967	Filing Dt:	7/5/199
3	Patent #: Title: THRE	5552977 E PHASE INVERTE	Issue Dt: ER CIRCUIT WITH		Application #: ANSITION FROM SV			6/20/199 ATION
4	Patent #: Title: INDU	<u>5627446</u> ICTION MOTOR CO	Issue Dt: ONTROL METHOD		Application #:	8498163	Filing Dt:	7/5/19
5	Patent #: Title: MACI	<u>5619435</u> HINE	Issue Dt:	4/8/1997	Application #:	8558950	Filing Dt:	.11/13/19
6	Patent #: Title: INDU	5739664 ICTION MOTOR DE	Issue Dt:		Application #:	8596846	Filing Dt:	2/5/19
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8	Patent #: Title: BACH	<u>5821720</u> (LASH ELIMINATIO	Issue Dt: ON IN THE DRIVE		Application #:	8846442	Filing Dt:	4/30/19
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10	Patent #: Title: VIBR	6072297 ATION DETECTION	Issue Dt: N AND CONTROL		Application #: E DRIVETRAIN	8926415	Filing Dt:	9/9/19
11	Patent #: Title: VOL1	6047787 TAGE CONTROL ME	Issue Dt:		Application #: R CONTROL SYSTEM		Filing Dt:	2/3/19
12	Patent #: Title: POLE	<u>5977679</u> -PHASE MODULAT	Issue Dt:		Application #: N INDUCTION MACH		Filing Dt:	3/5/19
13	Patent #: Title: MET)	5905349 HOD OF CONTROL	Issue Dt: LING ELECTRIC I		Application #: IN AN ELECTRIC V		Filing Dt:	4/23/19
14	Patent #: Title: ROTO	<u>5965967</u> OR FOR AN ELECT	Issue Dt: RICAL MACHINE		Application #:	9110353	Filing Dt:	7/6/19
15	Patent #: Title: INCR	6246343 EMENT ENCODER	Issue Dt: FAILURE DETEC		Application #:	9263303	Filing Dt:	3/5/19
16	Patent #: Title: VEHI	6122588 CLE SPEED CONTI	Issue Dt:		Application #:		Filing Dt:	10/19/19
17	Patent #: Title: COU	6307275 PLED TO AN INDU	Issue Dt: STRIAL TURBO E		Application #:	9495443	Filing Dt:	1/31/20
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NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

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Issue Dt:

6465977

10/15/2002 Application #: 9683176 Filing Dt:

11/29/2001





Publication #: <u>US20040095786</u>

United States Patent and Trademark Office

Patent Assignment Details

NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages: Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 Title: SYSTEM AND METHOD FOR CONTROLLING TORQUE IN AN ELECTRICAL MACHINE 36 6630809 Issue Dt: 10/7/2003 Application #: 9683180 Filing Dt: Patent #: 11/29/2001 Pub Dt: Publication #: <u>US20030098665</u> 5/29/2003 Title: SYSTEM AND METHOD FOR INDUCTION MOTOR CONTROL 37 6639334 Issue Dt: 10/28/2003 Application #: 9683199 Filing Dt: Patent #: 11/30/2001 Publication #: US20030102728 Pub Dt: 6/5/2003 Title: JET IMPINGEMENT COOLING OF ELECTRIC MOTOR END-WINDINGS 38 Patent #: 6452352 Issue Dt: 9/17/2002 Application #: 9705236 Filing Dt: 11/2/2000 Title: CURRENT GENERATING SYSTEM 39 Patent #: 6445095 Issue Dt: 9/3/2002 Application #: 9758871 Filing Dt: 1/11/2001 Publication #: US20020089242 Pub Dt: 7/11/2002 Title: ELECTRIC MACHINE WITH LAMINATED COOLING RINGS 40 10/21/2003 Application #: 9957001 Filing Dt: 6636429 Issue Dt: 9/20/2001 Patent #: Publication #: US20020126465 Pub Dt: 9/12/2002 Title: LEVEL 41 Patent #: 6793502 Issue Dt: 9/21/2004 Application #: 9957047 Filing Dt: 9/20/2001 Publication #: US20020111050 Pub Dt: 8/15/2002 Title: PRESS (NON-SOLDERED) CONTACTS FOR HIGH CURRENT ELECTRICAL CONNECTIONS IN POWER MODULES 1/18/2005 Application #: 9957568 Filing Dt: 42 Patent #: <u>6845017</u> Issue Dt: 9/20/2001 Pub Dt: Publication #: US20020118560 8/29/2002 Title: SUBSTRATE-LEVEL DC BUS DESIGN TO REDUCE MODULE INDUCTANCE 43 6707270 Issue Dt: 3/16/2004 Application #: 10010307 Filing Dt: 11/13/2001 Patent #: Publication #: <u>US20030090226</u> Pub Dt: 5/15/2003 Title: SYSTEM AND METHOD FOR INDUCTION MOTOR CONTROL 44 7012810 Issue Dt: 3/14/2006 Application #: 10109555 Filing Dt: 3/27/2002 Publication #: US20020167828 Pub Dt: 11/14/2002 TITIE: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE 45 Patent #: 6919650 Issue Dt: 7/19/2005 Application #: 10159603 Filing Dt: 5/31/2002 Publication #: US20030222507 Pub Dt: 12/4/2003 Title: HYBRID SYNCHRONIZATION PHASE ANGLE GENERATION METHOD 46 Patent #: 6700342 3/2/2004 Application #: 10208251 Filing Dt: 7/29/2002 Issue Dt: Publication #: US20030030395 Pub Dt: 2/13/2003 Title: LIMITED POSITION INFORMATION 47 Patent #: 6815925 Issue Dt: 11/9/2004 Application #: 10293911 Filing Dt: 11/12/2002 Publication #: US20040090205 Pub Dt: 5/13/2004 Title: SYSTEMS AND METHODS FOR ELECTRIC MOTOR CONTROL 48 6778411 8/17/2004 Application #: 10298473 Filing Dt: 11/18/2002 Patent #: Issue Dt:

Pub Dt:

Title: STARTUP APPARATUS AND METHOD FOR POWER CONVERTERS

5/20/2004





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Patent Assignment Details

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49	Patent #:	6714424	Issue Dt:	3/30/2004	Application #:	10306833	Filina Dt:	11/27/2002
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	_	DEAD-TIME COMPENS			IMINATION IN SOL	D-STATE SV	VITCH DEVIC	ES
50	Patent #:	6861835	Issue Dt:		Application #:	10309793	Filing Dt:	12/3/2002
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	Title: 1	METHOD AND SYSTEM	I FOR NON-INVAS	SIVE POWER TR	ANSISTOR DIE VOL	TAGE MEASI	JREMENT	
51	Patent #:	7106564	Issue Dt:	9/12/2006	Application #:	10328934	Filina Dt:	12/23/2002
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52	Patent #:	<u>7190145</u>		3/13/2007	Application #:	10334198	Filing Dt:	12/30/2002
	Publication #:	US20030164692	Pub Dt:	9/4/2003				
	Title: (METHOD AND APPARA	TUS FOR IMPROV	ING SPEED ME	ASUREMENT QUALI	TY IN MULTI	-POLE MACHI	NES
53	Patent #:	6914354	Issue Dt:	7/5/2005	Application #:	10334930	Eilina Dt.	12/30/2002
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54	Patent #:	<u>6853940</u>	Issue Dt:	2/8/2005	Application #:	10345871	Filing Dt:	1/15/2003
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	Title:	ANTI-ISLANDING DEV	ICE AND METHOD	FOR GRID CO	NNECTED INVERTE	RS USING R	ANDOM NOIS	E INJECTION
55	Patent #:	6844701	Issue Dt:	1/18/2005	Application #:	10245022	Eiling Dt.	1/15/2003
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56	Patent #:	<u>6937483</u>	Issue Dt:	8/30/2005	Application #:	10345894	Filing Dt:	1/15/2003
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58	Patent #:	<u>7014928</u>	Issue Dt:	3/21/2006	Application #:	10346561	Filing Dt:	1/16/2003
	Publication #:	US20030157379	Pub Dt:	8/21/2003				
	Title:	DIRECT CURRENT/DIR	RECT CURRENT CO	ONVERTER FOR	A FUEL CELL SYSTI	EM		
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		US20030214266	Pub Dt:	11/20/2003	CANCHE CONTRACTOR MA	TOD CONTO	21	
	Title:	CIRCUIT CONFIGURAT	I ION FOR PERMAI	NENI MAGNET	PANCHRONOUS MO	TOR CONTRO	JL	
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	Publication #:	<u>US20040033729</u>	Pub Dt:	2/19/2004				

Title: THREE-PHASE CONNECTOR FOR ELECTRIC VEHICLE DRIVETRAIN





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		US20040034508 CONVERTER CIRCUITS	Pub Dt:	2/19/2004			
63	Patent #:	<u>6936991</u>	Issue Dt:	8/30/2005	Application #:	10449824 Filing D	5/30/2003
		US20040036434	Pub Dt:	2/26/2004			
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64	Patent #:	6845020	Issue Dt:	1/18/2005	Application #:	10453920 Filing D	: 6/2/2003
	Publication #:	US20040027839	Pub Dt:	2/12/2004	• •		- ,-
	Title:	POWER CONVERTER SY	STEM				
65	Patent #:	6867987	Issue Dt:	3/15/2005	Application #:	10461933 Filing D	: 6/13/2003
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66	Patent #:	6900643	Issue Dt:	5/31/2005	Application #:	10637754 Filing D	8/6/2003
	Publication #:	US20050030045	Pub Dt:	2/10/2005		_	
	Title:	RIDE THROUGH IN ELEC	CTRONIC POWE	R CONVERTERS			
67	Patent #:	6906404	Issue Dt:	6/14/2005	Application #:	10642391 Filing D	8/14/2003
		US20040227231	Pub Dt:	11/18/2004			
	Title:	POWER MODULE WITH	VOLTAGE OVER	SHOOT LIMITIN	G		
68	Patent #:	6987670	Issue Dt:	1/17/2006	Application #:	10642424 Filing D	8/14/2003
	Publication #:	US20040228094	Pub Dt:	11/18/2004			
	Title:	DUAL POWER MODULE	POWER SYSTEM	1 ARCHITECTURI	=		
69	Patent #:	7058755	Issue Dt:	6/6/2006	Application #:	10658124 Filing D	9/9/2003
	Publication #:	US20050055496	Pub Dt:	3/10/2005			
	Title:	EEPROM EMULATION IN	I FLASH MEMOR	RY			
70	Patent #:	NONE	Issue Dt:		Application #:	10658804 Filing D	9/9/2003
	Publication #:	US20060274561	Pub Dt:	12/7/2006			
	Title:	Tri-level inverter					
71	Patent #:	NONE	Issue Dt:		Application #:	10664808 Filing D	: 9/17/2003
	Publication #:	US20040230847	Pub Dt:	11/18/2004			
	Title:	Power converter archite	cture employing	g at least one ca	pacitor across a DC	bus	
72	Patent #:	7019996	Issue Dt:	3/28/2006	Application #:	10688834 Filing D	: 10/16/2003
	Publication #:	US20050083714	Pub Dt:	4/21/2005		_	
	Title:	POWER CONVERTER EM	IPLOYING A PLA	ANAR TRANSFOR	MER		
73	Patent #:	NONE	Issue Dt:		Application #:	10713552 Filing D	: 11/14/2003
	Publication #:	US20050105229	Pub Dt:	5/19/2005		_	
	Title:	Two-level protection for	uninterrupted	power supply			
74	Patent #:	6940735	Issue Dt:	9/6/2005	Application #:	10713767 Filing D	: 11/14/2003
	Publication #:	US20050105306	Pub Dt:	5/19/2005		•	
	Title:	POWER CONVERTER SY	STEM	•			





Publication #: US20060082983

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Pub Dt:

Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE

4/20/2006





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Patent Assignment Details

NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

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Pages:

Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total properties: 104

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103

104

101 Patent #: NONE Issue Dt:

Application #: 11317658 Filing Dt:

12/22/2005

Publication #: <u>US20070147097</u>

Pub Dt:

6/28/2007

Patent #: NONE

Title: house keeping power supply

Issue Dt:

Application #: 11318166 Filing Dt:

12/23/2005

Publication #: US20060099463

Pub Dt:

5/11/2006

Patent #: NONE

Issue Dt:

Title: Direct current/direct current converter for a fuel cell system

Application #: 11472486 Filing Dt:

6/20/2006

Publication #: <u>US20070012492</u>

Pub Dt:

1/18/2007

Title: Power generation system suitable for hybrid electric vehicles Patent #: NONE

Issue Dt:

Application #: 11480311 Filing Dt:

6/29/2006

Publication #: US20070016340

Pub Dt: 1/18/2007

Title: Controller method, apparatus and article suitable for electric drive

Assignor

1 BALLARD POWER SYSTEMS CORPORATION

Assignee

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2400 EXECUTIVE HILLS BLVD.

AUBURN HILLS, MICHIGAN 48326-2980

Correspondence name and address

ELSA KELLER SIEMENS CORPORATION INTELLECTUAL ET AL 170 WOOD AVENUE SOUTH **ISELIN, NJ 08830**

Search Results as of: 07/19/2007.02:11 PM

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 57 t-272-3350 v.2.0.1 Web interface last modified: April 20, 2007 v.2.0.1